

28PW6451  
32PW6451

tv



**PHILIPS**

**MODEL :** \_\_\_\_\_

**PROD. NO :** \_\_\_\_\_

Please note the reference numbers for your TV set located on the packaging or on the back of the set.



**Recycling**

This packaging of this set can be recovered or recycled. Apply to the local authorities in order to minimise environmental waste.



**Disposal of your old product.**

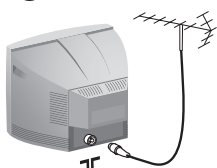
Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.


When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

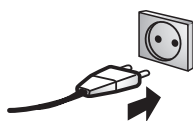
## Installing your television set

1



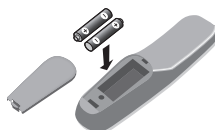
Insert the aerial plug into the  socket at the rear of the set.

2



Insert the mains plug into a wall socket (220-240 V / 50 Hz).


3



Insert the two R6-type batteries (supplied) making sure that they are the right way round.

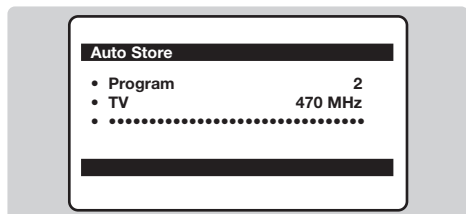
4





To switch on the set, press the on/off key. If the television remains in standby mode, press **P**  on the remote control.

## Quick installation


The first time you switch on the television, a menu appears on the screen and the tuning starts automatically.






If the menu is not displayed, press and hold down the  and  keys on the TV set for 5 seconds to start the tuning.

- 1 All the available TV programmes will be stored. This operation takes a few minutes. The display




shows the progress of the search and the number of programs found. At the end of the search, the menu disappears.

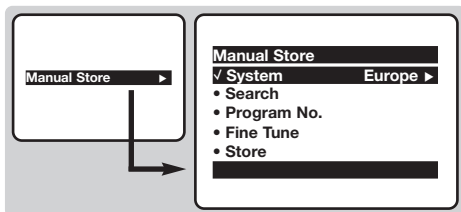
To exit or interrupt the search, press .











If no programme is found, see *Tips* chapter at the end of the instruction for use.

- 2 If the transmitter or cable network sends the automatic sort signal, the programs will be numbered correctly. In this case, the installation is complete.
- 3 If this is not the case, you need to use the **Sort** menu to number the programs correctly. Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the   keys and validate with .

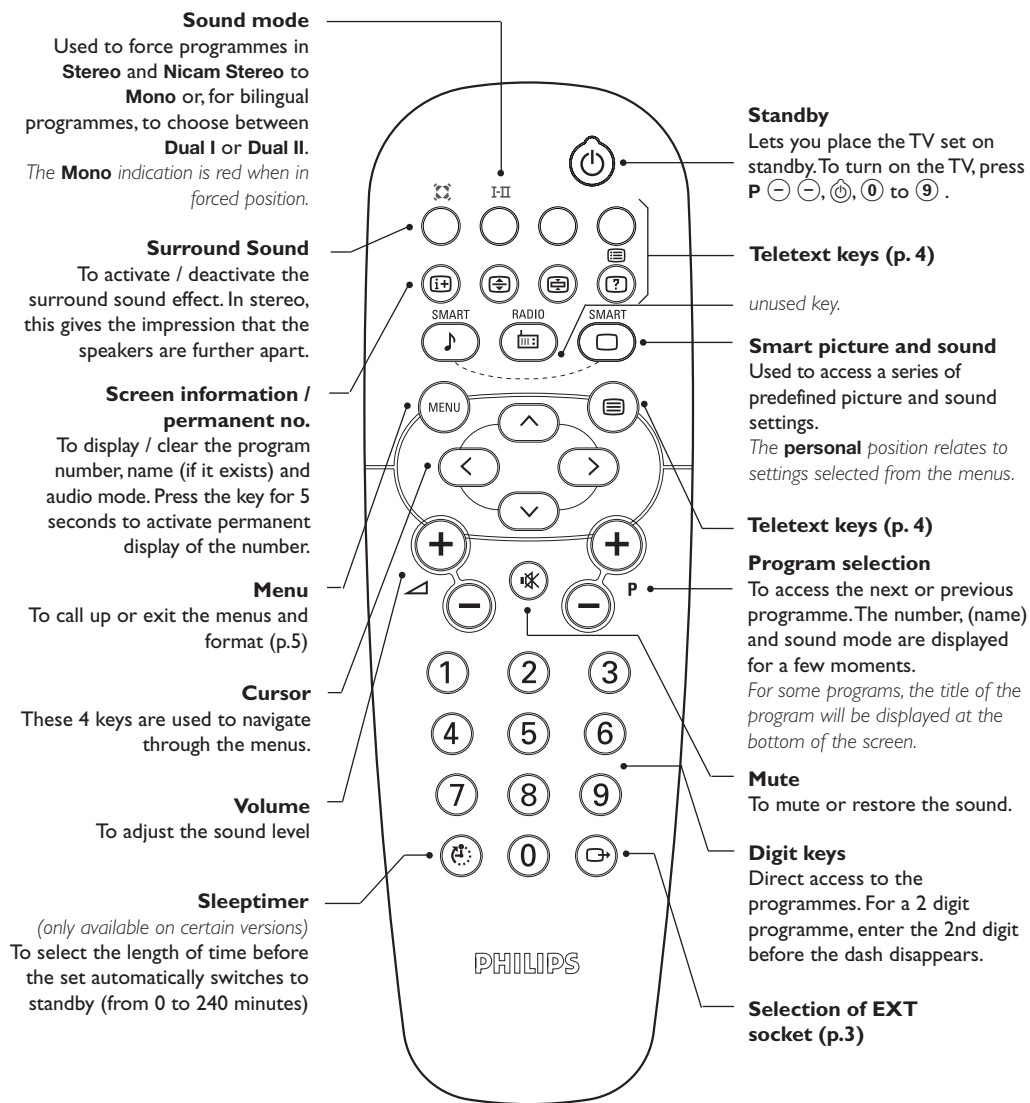
## Program sort

- 1 Press key . The Main menu is displayed on the screen.
- 2 With the  key, select **Manual Store** and press .



- 3 Use the   or   keys to select the program you wish to renumber.
- 4 Then use the  key to select **Program No** and enter the new number with the   keys.
- 5 With the  key, select **Store** and press .
- 6 Repeat steps 3 to 5 for each program you wish to renumber.
- 7 To quit the menus, press .

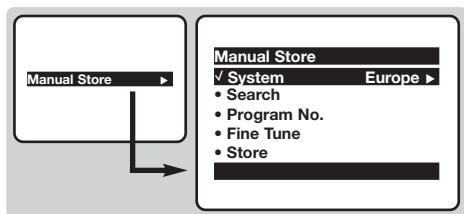
# Remote control keys



## Manual store

This menu is used to store the programmes one at a time.

- 1 Press the **MENU** key.
- 2 With the **▲** key, select **Manual Store** and press **▶**. Use the **▲**/**▼** keys to select a setting and the **◀**/**▶** keys to adjust. :



- 3 **System:** select **Europe** (automatic detection\*) or **West Europe** (BG standard), **East Europe** (DK

standard), **UK** (I standard) or **France** (LL' standard).

\* Except for France (LL' standard), you must select choice **France**.

- 4 **Search:** press **◀**. The search starts. Once a programme is found, the scanning stops. Go to the next step. If you know the frequency of the required programme, this can be entered directly using the **0** to **9** keys. If no programme is found, see *Tips* chapter at the end of the instruction for use.
- 5 **Program No.:** enter the required number with the **◀**/**▶** or **0** to **9** keys.
- 6 **Fine Tune:** if the reception is not satisfactory, adjust using the **◀**/**▶** keys.
- 7 **Store:** press **▶**. The program is stored.
- 8 Repeat steps 4 to 7 for each programme to store.
- 9 To quit the menus, press **EXIT**.

## Other settings in the menu

- 1 Press the **MENU** key.
- 2 Use the **▲**/**▼** keys to select a setting and the **◀**/**▶** keys to adjust. :



- **Brightness:** this changes picture brilliance.

- **Colour:** this changes the intensity of the colour.
- **Contrast:** this changes the difference between the light and dark tones.
- **Sharpness:** this changes the picture definition.
- **Balance :** this balances the sound on the left and right speakers.
- **Rotation (if available) :** adjusts the angle of the picture.
- **Auto Store:** to start automatic search for all programmes available in your region. Then, you need to use the **Manual Store** menu to renumber the programmes (see p. 1).

To quit or interrupt the search, press **MENU**.

- 3 To quit the menus, press **EXIT**.

## Other functions

### Connecting peripheral equipment

Use the euroconnector socket located at the back of the set or the front AV connections (when available). Certain versions are equipped with 2 euroconnectors EXT1 and EXT2. To select connected equipment, press several times the **⏮** key.

Most equipment (decoder, VCR) carries out the switching itself.

### Headphones socket (only available on certain versions)

When headphones are connected, the sound on the TV set will be cut.

The **-** **▲** **+** keys are used to adjust the volume level.

The headphone impedance must be between 32 and 600 Ohms.

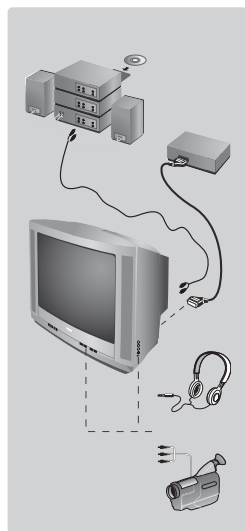
### Amplifier (only available on certain versions)

To connect to a hi-fi system, use an audio connection cable and connect the "L" and "R" outputs on the TV set to the "AUDIO IN" "L" and "R" input on your hi-fi amplifier.

### The keys on the TV set

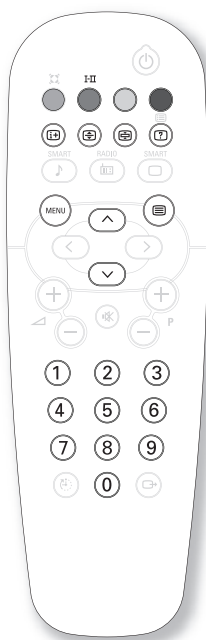
The TV set has 4 keys : VOLUME - + (- **▲** **+**) and PROGRAM - + (- **P** **+**).

To access or exit the menus, press simultaneously the **▲** - and **▲** + keys. Then use the - **P** + and - **▲** + keys to select and adjust.



# Teletext

Teletext is an information system broadcast by certain channels which can be consulted like a newspaper. It also offers access to subtitles for viewers with hearing problems or who are not familiar with the transmission language (cable networks, satellite channels, etc.).



## Press :

## You will obtain:



### Teletext call

This is used to call teletext, change to transparent mode and then exit. The summary appears with a list of items that can be accessed. Each item has a corresponding 3 digit page number.

*If the channel selected does not broadcast teletext, the indication 100 will be displayed and the screen will remain blank (in this case, exit teletext and select another channel).*



### Selecting a page

Enter the number of the page required using the 0 to 9 or - P + keys, ^ v. Example: page 120, enter 1 2 0. The number is displayed top left, the counter turns and then the page is displayed. Repeat this operation to view another page.

*If the counter continues to search, this means that the page is not transmitted. Select another number.*



### Direct access to the items

Coloured areas are displayed at the bottom of the screen. The 4 coloured keys are used to access the items or corresponding pages.



### Contents

This returns you to the contents page (usually page 100).




### Enlarge a page

This allows you to display the top or bottom part of the page and then return to normal size.



### Stop sub-page acquisition

Certain pages contain sub-pages which are automatically displayed successively. This key is used to stop or resume sub-page acquisition. The indication  appears top left.




### Hidden information

To display or hide the concealed information (games solutions).



### Favourite pages


For teletext programs 0 to 40, you can store 4 favourite pages which can then be accessed directly using the coloured keys (red, green, yellow, blue).

1 Press the  key to change to favourite pages mode.

2 Display the teletext page that you want to store.

3 Press the coloured key of your choice for 3 seconds. The page is now stored.


4 Repeat the operation with the other coloured keys.

5 You can now consult teletext and your favourite pages will appear in colour at the bottom of the screen. To retrieve the standard items, press .

*To clear everything, press  for 5 seconds.*



### Double page teletext (only available on certain versions)

To activate or deactivate the double page teletext display mode. The active page is displayed on the left and the following page is displayed on the right. Press  if you want to hold a page (i.e. the contents page). The active page is then displayed on the right. To return to normal mode, press I-II.

## Formats

### If your television is equipped with a 4:3 screen.



Press the **(M)** key (or **(^)(v)**) to select the different modes:

#### 4:3

The picture is reproduced in 4:3 format.



#### Expand 4:3

The picture is enlarged vertically. This mode is used to cancel the black bands when watching a programme in letterbox format.



#### Compress 16:9

The picture is compressed vertically into 16:9 format.

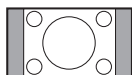
### If your television is equipped with a 16:9 screen.

Press the **(M)** key (or **(^)(v)**) to select the different modes:

*This TV set is also equipped with automatic switching which will select the correct-screen format, provided the specific signals are transmitted with the programmes.*

#### 4:3

The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture. The picture may be progressively enlarged using the **(^)(v)** keys.



#### Zoom 14:9

The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture. The **(^)(v)** keys allow you to compress and move the image vertically to view the top or bottom of the picture (subtitles).



#### Zoom 16:9

The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format).

Use the **(^)(v)** keys if you wish to compress and move the image vertically to view the top or bottom of the picture.



#### Subtitle Zoom

This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible. Use the **(^)(v)** keys to increase or decrease the compression at the bottom of the screen.



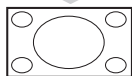
#### Super Wide

This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture. The **(^)(v)** keys allow you to scroll the image up or down the screen.



#### Widescreen

This mode restores the correct proportions of pictures transmitted in 16:9 using full screen display.



## Tips

### Positioning the television set

Place your TV on a solid, stable surface, leaving a space of at least 5 cm around the appliance. To avoid accidents, do not put anything on the set such as a cloth or cover, a container full of liquid (vase) or a heat source (lamp).

The set must not be exposed to water.

### Poor reception

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, modify the orientation of the aerial.

### No picture or no sound

Have you connected the aerial socket properly?  
Have you chosen the right system? (p. 3).

### Teletext

Are certain characters not displayed correctly? Press and hold down the **(-)** and **(+)** keys on the TV set for 5 seconds to display the **Country** menu. Then use the **(^)(v)** keys to select your country and validate with **(M)**.

### Standby

In stand-by mode, your TV consumes less than 5W depending on model. In order to be more environmentally friendly, please use the on/off (power) switch to turn the set off completely.

### Still no results?

If your TV set breaks down, never attempt to repair it yourself: contact your dealer's after-sales service.





# Information for users in the UK *(not applicable outside the UK)*

## Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures. The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

## General Points

Please take note of the section entitled 'Tips' at the end of this booklet.

## Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where they are being spoilt by interference.  
If your dealer cannot help, ask at a main Post Office for the booklet "How to Improve Television and Radio Reception".


## Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

## Important

This apparatus is fitted with an approved moulded 13AMP plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug.  
1. Remove fuse cover and fuse.  
2. The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, make contact with your retailer in order to verify the correct type.  
3. Refit the fuse cover.  
In order to maintain conformity to the EMC directive, the mains plug on this product must not be removed.

## Connecting the aerial

The aerial should be connected to the socket marked  at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate. Your dealer will know from experience the most suitable type for your locality. Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

## Fitting the stand (if provided)

Use only the stand provided with the set, making sure that the fixings are properly tightened. A diagram showing how to assemble the stand is packed with the stand. Never use a make-shift stand, or legs fixed with woodscrews.

## Table of TV frequencies.

EUROPE					
CANAL.....	FREQ (MHz)	CANAL.....	FREQ (MHz)	CANAL.....	FREQ (MHz)
E2.....	48.25	S15.....	259.25	33.....	567.25
E3.....	55.25	S16.....	266.25	34.....	575.25
E4.....	62.25	S17.....	273.25	35.....	583.25
E5.....	175.25	S18.....	280.25	36.....	591.25
E6.....	182.25	S19.....	287.25	37.....	599.25
E7.....	189.25	S20.....	294.25	38.....	607.25
E8.....	196.25	H1.....	303.25	39.....	615.25
E9.....	203.25	H2.....	311.25	40.....	623.25
E10.....	210.25	H3.....	319.25	41.....	631.25
E11.....	217.25	H4.....	327.25	42.....	639.25
E12.....	224.25	H5.....	335.25	43.....	647.25
R1.....	49.75	H6.....	343.25	44.....	655.25
R2.....	59.25	H7.....	351.25	45.....	663.25
R3.....	77.25	H8.....	359.25	46.....	671.25
R4.....	85.25	H9.....	367.25	47.....	679.25
R5.....	93.25	H10.....	375.25	48.....	687.25
R6.....	175.25	H11.....	383.25	49.....	695.25
R7.....	183.25	H12.....	391.25	50.....	703.25
R8.....	191.25	H13.....	399.25	51.....	711.25
R9.....	199.25	H14.....	407.25	52.....	719.25
R10.....	207.25	H15.....	415.25	53.....	727.25
R11.....	215.25	H16.....	423.25	54.....	735.25
R12.....	223.25	H17.....	431.25	55.....	743.25
S1.....	105.25	H18.....	439.25	56.....	751.25
S2.....	112.25	H19.....	447.25	57.....	759.25
S3.....	119.25	21.....	471.25	58.....	767.25
S4.....	126.25	22.....	479.25	59.....	775.25
S5.....	133.25	23.....	487.25	60.....	783.25
S6.....	140.25	24.....	495.25	61.....	791.25
S7.....	147.25	25.....	503.25	62.....	799.25
S8.....	154.25	26.....	511.25	63.....	807.25
S9.....	161.25	27.....	519.25	64.....	815.25
S10.....	168.25	28.....	527.25	65.....	823.25
S11.....	231.25	29.....	535.25	66.....	831.25
S12.....	238.25	30.....	543.25	67.....	839.25
S13.....	245.25	31.....	551.25	68.....	839.25
S14.....	252.25	32.....	559.25	69.....	855.25

FRANCE	
CANAL.....	FREQ (MHz)
2.....	55.75
3.....	60.50
4.....	63.75
5.....	176.0
6.....	184.0
7.....	192.0
8.....	200.0
9.....	208.0
10.....	216.0
B.....	116.75
C.....	128.75
D.....	140.75
E.....	159.75
F.....	164.75
G.....	176.75
H.....	188.75
I.....	200.75
J.....	212.75
K.....	224.75
L.....	236.75
M.....	248.75
N.....	260.75
O.....	272.75
P.....	284.75
Q.....	296.75

ITALY	
CANALE.....	FREQ (MHz)
A.....	53.75
B.....	62.25
C.....	82.25
D.....	175.25
E.....	183.75
F.....	192.25
G.....	201.25
H.....	210.25
H1.....	217.25



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